

Publications

Amalia K. Hicks

- “Submillimetre Source Counts in the Fields of High-redshift Galaxy Clusters”, Noble, A. G., Webb, T.M.A., Ellingson, E., Faloon, A.J., Gal, R.R., Gladders, M.D., **Hicks, A. K.**, Hoekstra, H., Hsieh, B.C., Ivison, R.J., Lemaux, B.C., Lubin, L.M., O’Donnell, D.V., Yee, H.K.C. (alphabetical), 2011, *Monthly Notices of the Royal Astronomical Society*, accepted (astro-ph arXiv:1109.5125)
- “The $L_X - T_{\text{vir}}$ relation in galaxy clusters: effects of radiative cooling and AGN heating”, Mittal, R., **Hicks, A. K.**, Reiprich, T. H., Jaritz, V., 2011, *Astronomy & Astrophysics*, 532, 133
- “Detecting Star Formation in Brightest Cluster Galaxies with *GALEX*”, **Hicks, A. K.**, Mushotzky, R., & Donahue, M., 2010, *Astrophysical Journal*, 719, 1844
- “Star Formation and UV colors of the Brightest Cluster Galaxies in the Representative XMM-Newton Cluster Structure Survey” Donahue, M., Bruch, S., Wang, E., Voit, G.M., **Hicks, A. K.**, Haarsma, D.B., Croston, J., Pratt, G., Pierini, D., O’Connell, R.W. & Bohringer, H. 2010, *Astrophysical Journal*, 715, 881
- “Tracing Star Formation in Cool Core Clusters with *GALEX*”, **Hicks, A. K.**, Mushotzky, R., & Donahue, M., 2009, *American Institute of Physics Conference Series* (not refereed), 1201, 146
- “*Chandra* X-ray Observations of the $0.6 < z < 1.1$ Red-Sequence Cluster Survey Sample”, **Hicks, A. K.**, Ellingson, E., Bautz, M., Cain, B., Garmire, G., Gilbank, D., Gladders, M., Hoekstra, H., & Yee, H. K. C. 2008, *Astrophysical Journal*, 680, 1022
- “Evidence for Line-of-sight Structure in a Comparison of X-ray and Optical Observations of the High-redshift Cluster RCS043938-2904.7”, Cain, B., Gilbank, D., Bautz, M. W., **Hicks, A. K.**, Yee, H. K., Gladders, M., Ellingson, E., Barrientos, L. F., & Garmire, G.P., 2008, *Astrophysical Journal*, 679, 293
- “A $z=0.9$ Supercluster of X-Ray Luminous, Optically-Selected, Massive Galaxy Clusters”, Gilbank, D. G., Yee, H. K. C., Ellingson, E., **Hicks, A. K.**, Gladders, M. D., Barrientos, L. F., and Keeney, B., 2008, *Astrophysical Journal Letters*, 677, L89
- “A Multiwavelength Analysis of the Strong Lensing Cluster RCS0224334-0002.5 at $z=0.778$ ”, **Hicks, A. K.**, Ellingson, E., Hoekstra, H., Gladders, M., Yee, H. K. C., Bautz, M., Gilbank, D., Webb, T., & Ivison, R. 2007, *Astrophysical Journal*, 671, 1446
- “*Chandra* Observation of the Interaction of the Radio Source and Cooling Core in Abell 2063”, Kanov, K., Sarazin, C. & **Hicks, A. K.** 2006, *Astrophysical Journal*, 653, 184
- “Multiwavelength Mass Comparisons of the $z \sim 0.3$ CNOC Cluster Sample”, **Hicks, A. K.**, Ellingson, E., Hoekstra, H., & Yee, H. K. C. 2006, *Astrophysical Journal*, 652, 232

- “Star Formation Rates in Cooling Flow Clusters: A UV Pilot Study with Archival XMM Newton Optical Monitor Data”, **Hicks, A. K.**, & Mushotzky, R. 2005, *Astrophysical Journal Letters*, 635, L9
- “Multiwavelength Studies of Cluster Evolution from $z \sim 1$ to the Present”, **Hicks, A. K.** 2005, Doctoral Dissertation, University of Colorado-Boulder
- “Chandra X-ray Observations of Newly Discovered, $z \sim 1$ Clusters from the Red Sequence Cluster Survey”, **Hicks, A. K.**, Ellingson, E., Bautz, M. W., Yee, H. K. C., Gladders, M., & Garmire, G. 2004, *Advances in Space Research*, 36, 706
- “Unresolved X-ray Sources in Intermediate Redshift Cluster Fields”, Fawcett, S., Ellingson, E., & **Hicks, A. K.** 2004, *Bulletin American Astronomical Society* (not refereed), 36
- “First X-ray Results from the Optically Selected Red Sequence Cluster Survey (RCS) at $z \sim 1$ ”, **Hicks, A. K.**, Ellingson, E., Yee, H. K. C., Jeltema, T. E., Bautz, M. W., Gladders, M., & Garmire, G. 2004, in *Multiwavelength Cosmology* (not refereed), ed. M. Plionis, Kluwer Academic Publishers
- “Linear Gas Dynamics in the Expanding Universe”, Gnedin, N. Y., Baker, E. J., Bethell, T. J., Drosback, M. M., Harford, A. G., **Hicks, A. K.**, Jensen, A. G., Keeney, B. A., Kelso, C. M., Neyrinck, M. C., Pollock, S. E. & van Vliet, T. P. 2003, *Astrophysical Journal*, 583, 525
- “Chandra X-Ray Spectroscopy and Imaging of the Galaxy Cluster PKS 0745-191”, **Hicks, A. K.**, Wise, M. W., Houck, J. C., & Canizares, C. R. 2002, *Astrophysical Journal*, 580, 763
- “Chandra X-Ray Spectroscopy and Imaging of the Galaxy Cluster PKS 0745-191”, **Hicks, A. K.** 2001, Masters Thesis, Massachusetts Institute of Technology (MIT)
- “Effects of Departures from Ionization Equilibrium on Cooling Flow X-Ray Spectra”, **Hicks, A. K.**, & Canizares, C. R. 2001, *Astrophysical Journal*, 556, 468
- “Effects of Departures from Ionization Equilibrium on Cooling Flow X-ray Spectra”, **Hicks, A. K.**, & Canizares, C. R. 1999, in *Large Scale Structure in the X-Ray Universe* (not refereed), eds. M. Plionis, I Georgantopoulos, S. Basilakos, E. Kontizas, Kluwer Academic Publishers
- “The Effects of High Temperature Annealing on the Surface Reconstruction of Nickel Oxide (1.0)”, Schofield, M. A., **Hicks, A. K.**, & Gajdardziska-Josifovska, M. 1998, *Electron Microscopy 1998, Proc. 14th International Congress on Electron Microscopy*, Eds. H.A. Calderon Benavides and M.J. Yacaman, Institute of Physics Publishing, 3, 713

Submitted Papers and Current Projects

- “The Gemini Cluster Astrophysics Spectroscopic Survey (GCLASS): The Role of Environment and Self-regulation in Galaxy Evolution at $z\sim 1$ ”, Muzzin, A., Wilson, G., Yee, H., Balogh, M., Burke, D., DeGroot, A., Demarco, R., Ellingson, E., Gardner, J.P., Gilbank, D., Gladders, G., **Hicks, A. K.**, Hoekstra, H., Lacy, M., Majumdar, Noble, A., S., Rettura, A., Surace, J., Webb, T., Yan, R. (alphabetical), 2011, *Astrophysical Journal*, submitted
- “Tracing the Baryons in Clusters of Galaxies: A Multi-mission X-ray Study of Moderate- z Optically-selected Clusters”, **Hicks, A. K.**, Ellingson, E., Pratt, G., Donahue, M., Boehringer, H., Arnaud, M., Croston, J., Gladders, M., Hoekstra, H. & Yee, H.K.C. *Astrophysical Journal*, in draft for Fall 2011 submission
- “X-ray Observations of a Massive $z=0.87$ Galaxy-selected Cluster”, Ellingson, E., **Hicks, A. K.**, Burke, D., Demarco, R., Muzzin, A. & Wilson, G. *Astrophysical Journal*, in draft for Fall 2011 submission
- “Infrared and Ultraviolet Star Formation in Brightest Cluster Galaxies”, Hoffer, A.S., Donahue, M., **Hicks, A. K.** & Barthelemy, R.S. *Astrophysical Journal*, in draft for Fall 2011 submission
- “Observing Distant, Optically-selected Clusters of Galaxies with *Suzaku*”, **Hicks, A. K.**, Sarazin, C. L., Ellingson, E., Donahue, M., Gladders, M., & Yee, H.K.C. *Astrophysical Journal*, in prep
- “Multi-wavelength Observations of the Extremely Massive and High Redshift Cluster RCS2 2327-02”, Gladders, M., Hoekstra, H., Gilbank, D., **Hicks, A. K.**, Marrone, D., Barrientos, L. F., Bonamente, M., Carlstrom, J., Ellingson, E., Joy, M. & Yee, H.K.C. *Astrophysical Journal Letters*, in prep